



RAW SEQUENCE LISTING ERROR REPORT

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Application Serial Number: 10/091,166
Source: OIPF
Date Processed by STIC: 3/20/02

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FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
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Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
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Revised 01/29/2002



OIPE

Does Not Comply
Corrected Diskette Needed

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/091,166

DATE: 03/20/2002
TIME: 16:27:03

Error on p. 3
throughout

Input Set : A:\97-44D1.txt
Output Set: N:\CRF3\03202002\J091166.raw

```

5 <110> APPLICANT: Adler, David A.
6     Holloway, James L.
7     Baindur, Nand
8     Beigel-Orme, Stephanie
9     Sheppard, Paul O.
11 <120> TITLE OF INVENTION: NOVEL BETA-DEFENSINS
14 <130> FILE REFERENCE: 97-44C1
C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/091,166
C--> 16 <141> CURRENT FILING DATE: 2002-03-05
16 <150> PRIOR APPLICATION NUMBER: 60/058,335
17 <151> PRIOR FILING DATE: 1997-10-09
19 <150> PRIOR APPLICATION NUMBER: 60/064,294
20 <151> PRIOR FILING DATE: 1997-11-05
22 <150> PRIOR APPLICATION NUMBER: 09/150,786
23 <151> PRIOR FILING DATE: 1998-09-10
25 <160> NUMBER OF SEQ ID NOS: 72
27 <170> SOFTWARE: FastSEQ for Windows Version 3.0
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 219
31 <212> TYPE: DNA
32 <213> ORGANISM: Homo sapiens
34 <220> FEATURE:
35 <221> NAME/KEY: CDS
36 <222> LOCATION: (1)...(195)
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39   atg agg atc cat tat ctt ctg ttt gct ttg ctc ttc ctg ttt ttg gtg
40   Met Arg Ile His Tyr Leu Leu Phe Ala Leu Leu Phe Leu Phe Leu Val
W--> 41   1           5           10          15
43   cct gtt cca ggt cat gga gga atc ata aac aca tta cag aaa tat tat
44   Pro Val Pro Gly His Gly Gly Ile Ile Asn Thr Leu Gln Lys Tyr Tyr
W--> 45   20          25          30
47   tgc aga gtc aga ggc ggc cgg tgt gct gtg ctc agc tgc ctt cca aag
48   Cys Arg Val Arg Gly Gly Arg Cys Ala Val Leu Ser Cys Leu Pro Lys
W--> 49   35          40          45
51   gag gaa cag atc ggc aag tgc tcg acg cgt ggc cga aaa tgc tgc cga
52   Glu Glu Gln Ile Gly Lys Cys Ser Thr Arg Gly Arg Lys Cys Cys Arg
W--> 53   50          55          60
54   aga aagaaataaa aaccctgaaa catg
55   Arg
56   65
59 <210> SEQ ID NO: 2
60 <211> LENGTH: 65
61 <212> TYPE: PRT

```

48

96

144

192

219

Amino acid
numbering
is misaligned
RTI: pls use
space bar, instead
of tab key

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Input Set : A:\97-44D1.txt

Output Set: N:\CRF3\03202002\J091166.raw

```

62 <213> ORGANISM: Homo sapiens
64 <400> SEQUENCE: 2
65 Met Arg Ile His Tyr Leu Leu Phe Ala Leu Leu Phe Leu Phe Leu Val
66 1 5 10 15
67 Pro Val Pro Gly His Gly Gly Ile Ile Asn Thr Leu Gln Lys Tyr Tyr
68 20 25 30
69 Cys Arg Val Arg Gly Gly Arg Cys Ala Val Leu Ser Cys Leu Pro Lys
70 35 40 45
71 Glu Glu Gln Ile Gly Lys Cys Ser Thr Arg Gly Arg Lys Cys Cys Arg
72 50 55 60
73 Arg
74 65
76 <210> SEQ ID NO: 3
77 <211> LENGTH: 31
78 <212> TYPE: PRT
79 <213> ORGANISM: Artificial Sequence
81 <220> FEATURE:
82 <223> OTHER INFORMATION: Cysteine motif of the Beta-defensin family
84 <221> NAME/KEY: VARIANT
85 <222> LOCATION: (2)...(7)
86 <223> OTHER INFORMATION: Xaa2 is independently any amino acid residue,
87 preferably not cysteine.
88 Xaa3 is independently any amino acid residue,
89 preferably not cysteine.
W--> 90 Xaa4 is independently any amino acid residue,
W--> 91 preferably not cysteine.
W--> 92 Xaa5 is independently any amino acid residue,
W--> 93 preferably not cysteine.
W--> 94 Xaa6 is independently any amino acid residue,
W--> 95 preferably not cysteine.
W--> 96 Xaa7 is independently any amino acid residue,
W--> 97 preferably not cysteine.
99 <221> NAME/KEY: VARIANT
100 <222> LOCATION: (9)...(12)
101 <223> OTHER INFORMATION: Xaa9 is independently any amino acid residue,
102 preferably not cysteine.
103 Xaa10 is independently any amino acid residue,
104 preferably not cysteine.
W--> 105 Xaa11 is independently any amino acid residue,
W--> 106 preferably not cysteine.
W--> 107 Xaa12 is independently any amino acid residue,
W--> 108 preferably not cysteine.
110 <221> NAME/KEY: VARIANT
111 <222> LOCATION: (14)...(20)
112 <223> OTHER INFORMATION: Xaa14 is independently any amino acid residue,
113 preferably not cysteine.
114 Xaa15 is independently any amino acid residue,
115 preferably not cysteine.
W--> 116 Xaa16 is independently any amino acid residue, )

```

Moved no. of
lines exceeded

Some

RAW SEQUENCE LISTING

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Input Set : A:\97-44D1.txt

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W--> 117 preferably not cysteine.
W--> 118 Xaa17 is independently any amino acid residue,
W--> 119 preferably not cysteine.
W--> 120 Xaa18 is independently any amino acid residue,
W--> 121 preferably not cysteine.
W--> 122 Xaa19 is independently any amino acid residue,
W--> 123 preferably not cysteine.
W--> 124 Xaa20 is independently any amino acid residue,
W--> 125 preferably not cysteine.
127 <221> NAME/KEY: VARIANT
128 <222> LOCATION: (22)...(22)
129 <223> OTHER INFORMATION: Xaa is any amino acid residue, preferably not
130 cysteine
132 <221> NAME/KEY: VARIANT
133 <222> LOCATION: (24)...(29)
134 <223> OTHER INFORMATION: Xaa24 is independently any amino acid residue,
135 preferably not cysteine.
136 Xaa25 is independently any amino acid residue,
137 preferably not cysteine.
W--> 138 Xaa26 is independently any amino acid residue,
W--> 139 preferably not cysteine.
W--> 140 Xaa27 is independently any amino acid residue,
W--> 141 preferably not cysteine.
W--> 142 Xaa28 is independently any amino acid residue,
W--> 143 preferably not cysteine.
W--> 144 Xaa29 is independently any amino acid residue,
W--> 145 preferably not cysteine.
147 <400> SEQUENCE: 3
W--> 148 Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
149 1 5 10 15
W--> 150 Xaa Xaa Xaa Xaa Gly Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Cys
151 20 25 30
153 <210> SEQ ID NO: 4
154 <211> LENGTH: 213
155 <212> TYPE: DNA
156 <213> ORGANISM: Artificial Sequence
158 <220> FEATURE:
159 <223> OTHER INFORMATION: Degenerate nucleotide encoding the polypeptide of
160 SEQ ID NO:2
162 <221> NAME/KEY: variation
163 <222> LOCATION: (1)...(213)
164 <223> OTHER INFORMATION: Nucleotides 12, 15, 21, 24, 27, 33, 39, 42, 45,
165 48, 51, 54, 60, 63, 75, 78, 98, 99, 100, 106, 109,
166 112, 115, 118, 121, 127, 130, 133, 136, 142, 145,
167 163, 172, 175, 178, 181, 184, 196, and 199 are
W--> 168 each independently A, T, G or C.
170 <400> SEQUENCE: 4
W--> 171 athcaytayy tnynttygc nytnytnnty ytnttytng tncngtncc nggncayggn 60
W--> 172 ggnathatha ayacnytnca raartrrrnn tgymngngtnm gnggnggngm ntgygcngtn 120

same

same

88, 89, 90, 96, 99, etc.

Numbering is off by
10 count

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DATE: 03/20/2002

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```

W--> 173 ytnwsntggy tncnaarga rgarcarath ggnaartgyw snacnmngngg nmgnartgy 180
W--> 174 tgygmngmna araartrraa rcentrraay atg 213
176 <210> SEQ ID NO: 5
177 <211> LENGTH: 20
178 <212> TYPE: DNA
179 <213> ORGANISM: Artificial Sequence
181 <220> FEATURE:
182 <223> OTHER INFORMATION: Oligonucleotide ZC14741
184 <400> SEQUENCE: 5
185 gagcacttgc cgatctgttc 20
187 <210> SEQ ID NO: 6
188 <211> LENGTH: 20
189 <212> TYPE: DNA
190 <213> ORGANISM: Artificial Sequence
192 <220> FEATURE:
193 <223> OTHER INFORMATION: Oligonucleotide ZC14740
195 <400> SEQUENCE: 6
196 ccaggtcatg gaggaatcat 20
198 <210> SEQ ID NO: 7
199 <211> LENGTH: 18
200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Oligonucleotide ZC14780
206 <400> SEQUENCE: 7
207 ggaggaatca taaacaca 18
209 <210> SEQ ID NO: 8
210 <211> LENGTH: 18
211 <212> TYPE: DNA
212 <213> ORGANISM: Artificial Sequence
214 <220> FEATURE:
215 <223> OTHER INFORMATION: Oligonucleotide ZC14776
217 <400> SEQUENCE: 8
218 gccgatctgt tctcctt 18
220 <210> SEQ ID NO: 9
221 <211> LENGTH: 438
222 <212> TYPE: DNA
223 <213> ORGANISM: Homo sapiens
225 <220> FEATURE:
226 <221> NAME/KEY: CDS
227 <222> LOCATION: (220)...(420)
229 <400> SEQUENCE: 9
230 acaaatccat agggagctct gccttaccat tgggttccta attaactgag tgagtgggtg 60
231 tgttctgcat ggtgagaggc attggaatga tgcatacaga aacatgtcat aatgtcatca 120
232 ctgtaatatg acaagaattg cagctgtggc tggaaacctt ataaagtga caagcacacc 180
233 ttttcatcca gtctcagcgt ggggtgaagc ctagcagct atg agg atc cat tat 234
234 Met Arg Ile His Tyr
235 1 5
237 ctt ctg ttt gct ttg ctc ttc ctg ttt ttg gtg cct gtt cca ggt cat , 282

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Input Set : A:\97-44D1.txt

Output Set: N:\CRF3\03202002\J091166.raw

```

238 Leu Leu Phe Ala Leu Leu Phe Leu Phe Leu Val Pro Val Pro Gly His
239          10          15          20
241 gga gga atc ata aac aca tta cag aaa tat tat tgc aga gtc aga ggc      330
242 Gly Gly Ile Ile Asn Thr Leu Gln Lys Tyr Tyr Cys Arg Val Arg Gly
243          25          30          35
245 ggc cgg tgt gct gtg ctc agc tgc ctt cca aag gag gaa cag atc ggc      378
246 Gly Arg Cys Ala Val Leu Ser Cys Leu Pro Lys Glu Glu Gln Ile Gly
247          40          45          50
249 aag tgc tcg acg cgt ggc cga aaa tgc tgc cga aga aag aaa      420
250 Lys Cys Ser Thr Arg Gly Arg Lys Cys Cys Arg Arg Lys Lys
251          55          60          65
253 taaaaaccct gaaacatg      438
255 <210> SEQ ID NO: 10
256 <211> LENGTH: 67
257 <212> TYPE: PRT
258 <213> ORGANISM: Homo sapiens
260 <400> SEQUENCE: 10
261 Met Arg Ile His Tyr Leu Leu Phe Ala Leu Leu Phe Leu Phe Leu Val
262 1          5          10          15
263 Pro Val Pro Gly His Gly Gly Ile Ile Asn Thr Leu Gln Lys Tyr Tyr
264          20          25          30
265 Cys Arg Val Arg Gly Gly Arg Cys Ala Val Leu Ser Cys Leu Pro Lys
266          35          40          45
267 Glu Glu Gln Ile Gly Lys Cys Ser Thr Arg Gly Arg Lys Cys Cys Arg
268          50          55          60
269 Arg Lys Lys
270 65
272 <210> SEQ ID NO: 11
273 <211> LENGTH: 219
274 <212> TYPE: DNA
275 <213> ORGANISM: Artificial Sequence
277 <220> FEATURE:
278 <223> OTHER INFORMATION: Degenerate nucleotide sequence encoding the
279 polypeptide of SEQ ID NO:10
281 <221> NAME/KEY: variation
282 <222> LOCATION: (1)...(219)
283 <223> OTHER INFORMATION: Nucleotides 6, 18, 21, 27, 30, 33, 39, 45, 48, 51,
284 54, 57, 60, 66, 69, 81, 84, 94, 95, 96, 102, 105,
285 108, 111, 114, 117, 123, 126, 129, 132, 138, 141,
286 159, 168, 171, 174, 177, 180, 192, 195, and 210
W--> 287 are each independently A, T, C, or G.
289 <400> SEQUENCE: 11
W--> 290 atgmgnathc aytayytnyt nttygcnytn ytnttyytnt tyytngtncc ngtnccnggn      60
W--> 291 cayggnggna thathaayac nytnccaraar trrrnntgym gngtnmgngg nggnmgntgy      120
W--> 292 gcngtnytnw sntgyytncc naargargar carathggna artgywsnac nmngnggnmgn      180
W--> 293 aartgytgym gnmgnaaraa rtrraarccn trraayatg      219
295 <210> SEQ ID NO: 12
296 <211> LENGTH: 21
297 <212> TYPE: DNA

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/091,166

DATE: 03/20/2002

TIME: 16:27:04

Input Set : A:\97-44D1.txt

Output Set: N:\CRF3\03202002\J091166.raw

L:16 M:270 C: Current Application Number differs, Replaced Current Application No
L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:41 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:45 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:49 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:53 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:90 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:91 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:92 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:93 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:94 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:95 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:96 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:97 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:105 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:106 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:107 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:108 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:116 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:117 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:118 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:119 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:120 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:121 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:122 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:123 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:124 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:125 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:138 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:139 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:140 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:141 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:142 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:143 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:144 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:145 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:150 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:168 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:287 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11

VERIFICATION SUMMARY
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Input Set : A:\97-44D1.txt
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L:349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:367 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:739 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:759 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:779 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40
L:799 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:819 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43
L:859 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:879 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
L:899 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:919 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:939 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48
L:959 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:979 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:999 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:1019 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:1039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53
L:1059 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
L:1079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1099 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56
L:1119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
L:1139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58
L:1159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59
L:1179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60
L:1197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61
L:1217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:1237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63
L:1257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64
L:1277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65
L:1297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:1317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67
L:1337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:1355 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
L:1373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:1391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71